KUNC, Zd., Doc., MUDr.; STARY, O., Doc., MUDr.; SETLIK, L., MUDr.

Results of the surgical treatment of intervertebral disk displacement in view of evaluation of work capacity. Cas. lek. cesk. 94 no.44:1186-1189 28 Oct 55.

1. Z chirurgickeho oddeleni UVN, Praha,--Z neurologicke kliniky Karlovy university, prednosta akademik K. Henner. Z neurologickeho oddel. UVN, Praha.

(INTERVERTEBRAL DISK DISPLACEMENT, surgery
results, capacity to work.)
(WORK
capacity, evaluation after surg. of intervertebral disk displacement.)

SETLIK, Lubomil

Paroxysmal muscular paralysis. Cesk. neur. 24 no.2:120-125 Mr '61.

1. Neurologicke oddeleni Ustredni vojenske nemocnice Praha-Stresovice, primar MUDr. Frantisek Pleskot.

(PARALYSIS physiol) (POTASSIUM blood)
(ELECTROCARDIOGRAPHY)

SETLIK, L.

Tumors of the corpus callosum. Cesk. neurol. 25 no.5:320-326 S '62.

1. Neurologicke oddeleni Ustredni vojenske nemocnice v Praze, prednosta dr. F. Pleskot.
(CORPUS CALLOSUM) (BRAIN NEOPLASMS)

SETLIK, Ludomil, podplukovnik MUDr.

Backaches and their differential diagnosis. I. Lumbar pain caused by organic factors. Voj. zdrav. listy 34 no.3:113-117 Je '65.

1. Neurologické oddělení vojenské nemocnice v Olomouci.

Ophthalmology

CZECHOSLOVAKIA

UDC: 617.732-005.98

MORAN, Miroslav, Lt Col, MD; SETLIK, Lubomil, Lt Col, MD; Military Hospital, Olomouc

"Some Comments on Papilledema."

Prague, Vojenske Zdravotnicke Listy, Vol 35, No 5, Oct 66, pp 211-215

Abstract: [Czech, Russian and English summaries, modified]: A survey is presented of the theories concerning the origin and course of papilledema. The difficulties in diagnosing this disease and in determining its etiology are shown by numerous examples. The need for a thorough medical examination of the patient is emphasized, and the importance of documenting photographically the changes in the fundus oculi for an early and correct diagnosis of the changes in the papilla is pointed out. 4 Western and 11 Soviet-bloc references.

1/1

SETNICKA, F.

"Cooler and humidifier for superheated steam."

ENERGETIKA, Praha, Czechoslovakia, Vol. 5, no. 1, Jan. 1955

Monthly List of East European Accessions Index (EEAI), Library of Congress, Vol. 8, No. 8, August 1959

Unclassified

SETNICKA, F.

"Circulating pumps for water-heating systems with heat accumulation." p. 275.

STROJIRENSTVI. (Ministerstvo tezkeho strojirenstvi, Ministerstvo presneho strojirenstvi a Ministerstvo automobiloveho prumyslu a zemedelskych stroju). Praha, Czechoslovakia, Vol. 9, No. 4, Apr. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

SETNICKA, Frantisek, prof.

Remark on the introduction of the international unit system.
Drevo 18 no.6:231-232 Je '63.

1. Vysoka skola lesnicka a drevarska, Zvolen.

SETNICKA, Frantisek

More attention to the quality of factory designs. Drevo 18 no.8:305-307 Ag '63.

1. Drevarska fakulta, Vysoka skola lesnicka a drevarska, Zvolen.

SETNICKA, Frantisek

Moisture condensation in exhaust systems. Drevo 18 no.4:140-145 Ap '63.

1. Vysoka skola lesnicka a drevarska, Zvolen.

SEMICKA, Frantisek, prof.

Dimensions of values in the new system of units. Drevo 19 no.1:19-21 Ja'64.

1. Prevarska fakulta, Zvolen.

SETNICKA, Frantisek

Heating and cooling saw timber. Drevo 19 no.6:207-211 Je '64.

1. Faculty of Wood, Higher School of Forestry and Wood, Zvolen.

SETNICKA, Frantisek

Heating and cooling of timber. Drevo 19 no.7:254-258 Jl '64.

1. Faculty of Wood, Higher School of Forestry and Wood, Zvolen.

SETNICKA, Frantisek

Use of the i-x diagram for optional pressure in solving changes in humid air conditions. Drevo 19 no.10:365-367 O '64.

1. Faculty of Wood of the Higher School of Forestry and Wood, Zvolen.

PUR, S.; SETNICKA, M.

The future of eye surgery. Cesk. oftal. 21 no.4:292-297 Jl '65.

1. Ocni oddeleni Obvodnikh ustavu narodniho zdravi v Kromerizi a Vyvojove oddeleni n. p. Dioptra v Kromerizi.

DOLENEK, A.; PISTELKA, Z.; technicka spoluprace SETNICKA, M.

On the problem of erysiphake and pharcoerysis. Cesk. oftal. 18 no.1:62-65 Ja '62.

1. Ocni klinika lek. fak. PU v Olomouci, prednosta prof. dr. V.Vejdovsky Ocni oddeleni OUNZ v Kromerizi, zastupujici prednosta dr. A. Dolenek:

(CATARACT EXTRACTION)

L 9517-66 EWT(d)/EWP(w)/EWP(f)/EWP(c)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWP(l)/
ACC NR: AP6002639 ETC(m) JD/WW/EM SOURCE CODE: CZ/0032/65/015/002/0138/0143

AUTHOR: Vetiska, A. (Docent; Engineer; Doctor); Setnicka, R. (Engineer); Hoffmann, A. (Engineer)

ORG: [Vetiska] VUT, Brno; [Setnicka, Hoffmann] CKD, Blansko

TITLE: Checking the mechanical properties of large cast blades of Kaplan turbines

SOURCE: Strojirenstvi, v. 15, no. 2, 1965, 138-143

TOPIC TAGS: turbine blade, metal casting, metal property, solid mechanical property, mechanical engineering

ABSTRACT: The mechanical properties of large cast blades for Kaplan turbines can be checked by measuring the attenuation of ultrasonic signals in the casting. The method described reveals the actual mechanical properties of the casting and not just those of a sample cut out of a riser; samples from risers do not provide reliable information because there is a different crystallization process in them. This work was presented by Dr. J. Ruzicka. Orig. art. has: 10 figures, 6 tables. [JPRS]

SUB CODE: 13, 21 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 002

Card 1/1

POSPISIL, Josef, MUDr.; HERZMANN, Jiri, RNDr.; SETNICKOVA, Anna

Photoactivity of the animal tissue. Cas. lek. cesk. 94 no.29: 786-788 15 July 55.

1. Ustov pro peci o matku a dite Praha-Podoli, reditel nostel Radu republiky prof. MUDr. Jiri Trapl.

(LIGHT
photoactivity of animal liver on photographic plate)
(LIVER
photoactivity on photographic plate)

SETNICKOVA, ANNA.

Activity of animal tissue toward photographic material

[illegible] removing the tissue, and leaving the plate to ripen in darkness for 24 hrs. at 8° before development. Exact pictures of the structure were obtained with black-and-white [illegible] approximated the colors of the [illegible] underlying structures, which were not in direct contact with the emulsion, were brought out. Particularly more active or less mature tissues showed more intensive photoactivity. Tissue fluid seems to be the main agent involved, since washing decreases the intensity, but it was possible to obtain good results with intact surfaces of organs. Putrefaction decreased the intensity. Previous freezing was without effect; boiling or chem. fixation diminished but did not destroy the activity. Interposition of cellophane foil or mastix layer did not prevent the images, but mica or glass did. A chem. explanation is favored, except for the images of deeper-seated organs. I. M. Hais

Setnickova, A.

Contribution to study of photoactivity of animal tissues. P. 92
CESKOSLOVENSKY CASOPIS PRO FYSIKU. (Ceskoslovenska akademie ved. Ustav technicke fysiky) Praha
Vol. 6, no. 1, Jan. 1956

Source: EEAL - LC Vol. 5. No. 10 Oct. 1956

SETOSHNEV, MIKHAIL NIKOLAYEVICH.

Sel'shokhozyaystvennyze Mashiny; Teoriya, Raschet, Proyektirovaniye I Ispytaniye. (Farm Machinery; Theory, Accounting, Planni g and Testing) Izd. 2 Isprav. I Dopol. Moskva, Gos. Izd-vo Sel'skokhozyaystvennoy Literatury, 1949 856 P. Tables, Diagrs. (Uchebniki I Uchebnyye Possobiya Dlya Vyzov Mekhanizatsii Sel'skogo Khozyaystvo)

So: N/5
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1949

SA IKHANOV, A.B.

KURAYEV, A.V.; SEMENKOV, P.L.; BLEYZ, N.G.; BULAVA, V.P.; VYAZ'MIN, V.A.; GOLUBEV, B.S.; DYSHMAN, B.M.; KARELIN, B.S.; KAYUKOV, G.I., KUGEL', N.V.; MASHATIN, V.I.; RAGUSKAYA, L.F.; RUBINSHTEYN, S.M.; SHTRAMOV, A.B.; TARASOV, L.A.; FEDOROVA, A.A.; FEDOROV, L.N.; TSEPKIN, M.F.; SHAYEVICH, A.G.; VASIL'YEVA, I.A., red. izd-va; TIKHANOV, A.Ya., tekhn. red.

[ZIL-158 and ZIL-158A motorbuses; instructions for operation] Avtobusy ZIL-158 i ZIL-158A; instruktsiia po ekspluatatsii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 193 p. (MIRA 11:7)

1. Moskovskiy avtomobil'nyy zavod.
(Motorbuses)

SETRANOV, A.V.

"Clutches" by IA.E.Malakhovskii, A.A.Lapin. Avt.prom. 28
no.2:3 of cover F '62. (MIRA 15:2)

1. Moskovskiy avtozavod imeni Likhacheva.
(Motortrucks--Clutches)
(Malakhovskii, IA.E.) (Lapin, A.A.)

SETRUKOV, L. (Kiselevsk, Kemerovskoy obl.)

Automatic cutoff switch for motors. Voen. znan 38 no.10:34 O '62. (MIRA 15:10)

(Ships—Models) (Automatic control)

ROZENBERG, M.S.; RYVKIN, S.A.; SETSKO, V.I.; POPOVSKIY, V.M.

Pilot plant for a rapid upgrading of wet fuels in hot fuel oils. Khim. i tekh. topl. i masel. 8 no.3:33-36 Mr '63. (MIRA 16:4)

(Petroleum as fuel)

S/081/63/000/004/032/051
B194/B180

AUTHORS: Settarzade, A. D., Sadygova, S. S., Settarzade, I. S.

TITLE: Optical properties of petroleum from the Artem province

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1963, 519, abstract 4P128 (Uch. zap. Azerb. un-t Ser. fiz.-matem. n.", no. 5, 1961, 51-57 [Azerb.; summary in Russ.])

TEXT: The optical properties were studied of two kinds of petroleum from the Artem province in the Azerb.SSR. Fractional distillation showed that there was some optical activity even in the gasoline fraction; as the boiling point of the fraction rises the absolute values of the specific rotation decrease to a definite minimum then rise again, the highest values of specific rotations being found in the higher lubricating oil fractions. Racemization is not achieved by treating individual fractions with 85% or 99% H_2SO_4 (the optical activity is preserved). In low-boiling fractions the absolute value of the specific rotation is considerably lowered by sulfonation. The treatment of gas oil and lubricating oil fractions with H_2SO_4 causes a slight rise in the specific rotation due to the increased concentra-

Card 1/2

S/081/63/000/004/032/051
Optical properties of petroleum from.. B194/B180

tion of optically active petroleum components in the residue. The reduced angle of rotation after treatment with H_2SO_4 can be explained by its removal of the optically active components of the aromatic series present in that fraction. [Abstracter's note: Complete translation.]

Card 2/2

SETSKO, L.A.

Phase shifter with magnetic frequency control. Izm. tekh. no.1: 34-35 Ja '64. (MIRA 17:11)

L 1 1038-66 EWT(1) IJP(c)

ACC NR: AR6000412 SOURCE CODE: UR/0271/65/000/009/A038/A038

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika, Abs. 9A284

AUTHOR: Setsko, L. A. 40, 55

TITLE: Quadrosummator based on utilization of Hall effect

CITED SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, vyp. 21, 1964, 141-146

TOPIC TAGS: summator, voltage multiplier, Hall generator

TRANSLATION: A device is described which uses the Hall effect 21, 44, 55 for multipling two voltages at the same frequency, the phase shift between the voltages having no effect on the resulting amplitude, which determines the d-c component in the output voltage. The device incorporates four Hall generators placed in the airgaps of ferrite cores. A connection diagram of the device is given, and its operation is analyzed. Possible sources of error are appraised. Experimental results are reported. Bib 5, fig 1.

SUB CODE: 09

HW

Card 1/1 UDC: 621.398.694:621.376

S/081/63/000/004/032/051
B194/B180

AUTHORS: Settarzade, A. D., Sadygova, S. S., Settarzade, I. S.

TITLE: Optical properties of petroleum from the Artem province

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1963, 519, abstract 4P128 (Uch. zap. Azerb. un-t Ser. fiz.-matem. n.", no. 5, 1961, 51-57 [Azerb.; summary in Russ.])

TEXT: The optical properties were studied of two kinds of petroleum from the Artem province in the Azerb.SSR. Fractional distillation showed that there was some optical activity even in the gasoline fraction; as the boiling point of the fraction rises the absolute values of the specific rotation decrease to a definite minimum then rise again, the highest values of specific rotations being found in the higher lubricating oil fractions. Racemization is not achieved by treating individual fractions with 85% or 99% H_2SO_4 (the optical activity is preserved). In low-boiling fractions the absolute value of the specific rotation is considerably lowered by sulfonation. The treatment of gas oil and lubricating oil fractions with H_2SO_4 causes a slight rise in the specific rotation due to the increased concentra-

Card 1/2

Optical properties of petroleum from.. S/081/63/000/004/032/051
B194/B180

tion of optically active petroleum components in the residue. The reduced angle of rotation after treatment with H_2SO_4 can be explained by its removal of the optically active components of the aromatic series present in that fraction. [Abstracter's note: Complete translation.]

Card 2/2

S/106/62/000/011/002/003
A055/A126

AUTHOR: Setskc, N.A.

TITLE: Near-end crosstalk attenuation in twisted two-wire circuits of symmetrical communication cables

PERIODICAL: Elektrosvyaz', no. 11, 1962, 48 - 56

TEXT: Examining the direct interaction at the near-end between two-wire h-f circuits of symmetrical cables (in a cylindrical metallic sheath) located in one lay of the cable, the author deduces first an approximate formula giving the electromagnetic coupling coefficient between two circuits at the near-end, and from this formula he derives a formula giving the interaction current at the near-end (for a balanced cable length). These formulae are valid for any lay and any direction of the twist of the circuits. The interaction current at the near-end depends to a large extent on the initial phases of the circuits. The author deduces then three formulae that permit to calculate (from the geometrical dimensions of the cable elements) the crosstalk attenuation at the near-end, each of these three formulae corresponding to a different twist of the circuits.

Card 1/2

S/106/63/000/001/007/007
A055/A126

AUTHOR: Setsko, N.A.

TITLE: On the calculation of the capacitance of two-wire symmetrical cable circuits

PERIODICAL: Elektrosvyaz', no. 1, 1963, 69 - 72

TEXT: In the formula deduced by V.N. Kuleshov [Teoriya kabeley svyazi (Theory of communication cables), Svyaz'izdat., 1950] for the capacitance of symmetrical cable circuits, the distance of the circuit from the metallic sheath of the cable is taken into account by the introduction of the coefficient ψ, which is determined and tabulated for circuits situated in the center of the cable, coaxially with the metallic sheath. In the present article (and under the same assumptions), the coefficient ψ is calculated for an arbitrary disposition of the twisted circuit inside the cable; the corresponding new formula for the capacitance of two-wire symmetrical cable circuits is also given. The new formula for the coefficient ψ is:

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$$\psi = \sqrt[4]{\frac{\left[\left(R^2 - R_1^2 - \frac{a^2}{4}\right)^2 - a^2 R_1^2\right]\left(R^2 - R_1^2 - \frac{a^2}{4}\right)^2}{\left[\left(R^2 - R_1^2 - \frac{a^2}{4}\right)^2 - a^2 R_1^2 + a^2 R^2\right]\left[\left(R^2 - R_1^2 - \frac{a^2}{4}\right)^2 + a^2 R^2\right]}} \qquad (15)$$

where R is the radius of the grounded cylindrical metallic sheath; R_1 is the distance between the axis of the circuit and the axis of the metallic sheath; a is the distance between the axes of the wires. The formula for the capacitance is:

$$C = \frac{\varkappa \varepsilon_r \cdot 10^{-6}}{36 \left(\ln \frac{a}{r_0} \psi\right)}, \quad \text{f/km} \qquad (14)$$

where $\varkappa$ is the twisting coefficient; ε_r is the relative permittivity of the dielectric; r_0 is the radius of the wires. There are 1 figure and 1 table.

SUBMITTED: March 14, 1962

Card 2/3

SETSKO, N.A.

Crosstalk attenuation at the nearest end between twisted two-wire networks in balanced communication cables. Elektrosviaz' 16 no.11:48-56 N '62. (MIRA 15:11)

(Radio lines) (Telephone lines)

SETSKO, N.A.

Calculation of the capacitane of a two-wire symmetrical cable network. Elektrosviaz' 17 no.1:69-72 Ja '63. (MIRA 16:2)
(Telephone lines) (Coaxial cables) (Telecommunication)

SETTAROV, I.A.

Abdominal hernias according to data from Andizhan Province Clinical Hospital for a ten year period (1951-1960). Med. zhur. Uzb. no.11: 52-54 N '61. (MIRA 15:2)

1. Iz kafedry gospital'noy khirurgii (zav. - prof. A.Ya.Yasnogorodskiy) Andizhanskogo gosudarstvennogo meditsinskogo instituta.
(ANDIZHAN PROVINCE--HERNIA)

SHTT-U[illegible]OV, S. M.

Spinal Anesthesia

Peridural anesthesia, Sov. med. 17, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

SETTEY, L.

OPERATION FOR RECURRENT DISLOCATION OF THE SHOULDER - Štandardizácie výsledkov niklovej operácie pri habituálnych luxáciách ramena - Settey L. Ortop. Klin. Lek. Fak., Univ. Komenského, Bratislava - BRATISL. LEK. LISTY 1958, 38(II)/5 (265-269) Tables 1

Seventeen out of 21 cases treated with Nikol's operation in the period 1946-1955 were followed up. According to the subjective judgment of the patients the results were mostly unsatisfactory, but objectively considered they were relatively good. On the whole the results indicate the desirability of limited application of Nikol's operation. The morbid-anatomical findings with regard to the condition of the shoulder joint before the operation must be the criterion of the selection of the surgical method.

(IX, 19)

SETTEY, L.; KAMENICKY, I.

Preliminary results of surgical therapy of congenital hip dislocation in patients over ten years of age during 1946-55. Acta chir. orthop. traum. cech. 26 no.5-6:551-554 1959.

1. Ortopedicka klinika lekarskej fakulty UK v Bratislave, prednosta clen koresp. SAV. prof. dr. Jan Cervenansky.
(HIP, fract. & disloc.)

SETUNOV, F.; CHERNYSHOV, Yu.

Applying the linear programing method for solving economic problems in automotive transportation. Biul.nauch.inform.: trud i zar.plata no.11:74-79 '59. (MIRA 13:5)
(Transportation, Automotive)
(Linear programming)

USSR/Geology - Erosion

Card 1/1 Pub. 45 - 11/17

Authors : Lidov, V. P.; Dik, N. Ye.; Nikolaevskiy, Ye. M.; Setunskaya, L. Ye.; and Khmelevaya, N. V.

Title : Classification of recent linear forms of erosion

Periodical : Izv. AN SSSR. Ser. geog. 3, 91-99, May - Jun 1954

Abstract : A study is made of the work of classifying forms of erosion along the following basic lines: establishing qualitative differences of the different types of forms depending on the intensity of the erosion processes, distinguishing between the types of forms in accordance with the stage of development in evolutionary sequence and showing the nature of the interacting processes on the bilges and slopes of the forms. Five USSR references (1950-1952). Tables.

Institution: .....

Submitted: .....

SETUNSKAYA, L. YE.

SETUNSKAYA, L. YE. -- "Use of Series of Special Maps for the Analysis of Natural Phenomena and Their Interrelations. (Based on the Study of Processes of Erosion)." Acad Sci USSR, Inst of Georgrphy, Moscow, 1955. (Dissertations for the Degree of Candidate in Gecgraphical Science)

SO: Knizhnaya Letopis': No. 39, 24 Sept 55

SETUNSKAYA, L. E.

USSR/ Geography - Geodesy

Card 1/1 Pub. 45 - 12/18

Authors : Svatkov, N. M., and Setunskaya, L. E.

Title : USSR Atlas

Periodical : Izv. AN SSSR, Ser. geog. 1, 100 - 102, Jan-Feb 1955

Abstract : A review is made of the new Soviet Atlas, published by the Central Directorate of Geodesy and Cartography of the Ministry of Internal Affairs, M., in 1954. The maps contain special features such as the indication of swamps, salt bottoms, continental ice sheets, glaciers, eternal snows, and volcanoes with heights and depths indicated. Some features of the atlas are criticized, but, generally it is given a good rating.

Institution : .....

Submitted : .....

LIDOV, V.P., SETUNSKAYA, L.Ye., KHMELEVA, N.V.

Quantitative studies of micro-relief associated with soil erosion. Izv.Vses.geog.ob-va 87 no.6:542-546 N-D '55. (MLRA 9:3)
(Erosion)

MIRONOVA, Ye.A.; SETUNSKAYA, L.Ye.

Interdepartmental conference on combating soil erosion. Izv.AN SSSR.Ser.geog. no.3:153-155 My-Je '56. (MLRA 9:11)
(Erosion)

LIDOV, V.P.; SETUNSKAYA, L.Ye.

Cartographic research method and problems of division into fractional physical geographical regions. Vop.geog. no.39:70-79 '56. (MLRA 9:11)

(Physical geography) (Cartography)

SETUNSKAYA, L.Ye.; AKSEL'ROD, I.M.

"Cartography in 1943-1954; a bibliographical survey" [in German] by Hans-Peter Kosack and Karl-Heinz Meine. Reviewed by L.E. Setunskaia, I.M. Aksel'rod. Izv. AN SSSR. Ser. geog. no.6:160-162 N-D '57. (MIRA 11:1)

(Bibliography--Cartography)
(Kosack, Hans-Peter) (Meine, Karl-Heinz)

AUTHOR: Setunskaya, L.Ye. 10-58-3-25/29

TITLE: Conference on the Problems of Recent Tectonic Movements of the Earth's Crust (Soveshchaniye po voprosam sovremennykh tektonicheskikh dvizheniy zemnoy kory)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geograficheskaya, 1958, Nr 3, pp 153-156 (USSR)

ABSTRACT: From the 29th to 30th January 1958, a conference took place at the Institut geografii AN SSSR (Geographical Institute of the AS USSR) on recent tectonic movements of the Earth's crust on USSR territory. The following institutions were represented: Tsentral'nyy nauchno-issledovatel'skiy institut geodezii, aerosyëmki i kartografii GUGK MVD SSSR (Central Scientific Research Institute of Geodesy, Aerial Photography and Carotgraphy of the GUGK MVD SSSR; Gidrograficheskoye upravleniye (Hydrographic Administration), Bashkirskiye i Kol'skiye filialy AN SSSR (The Bashkir and Kola Branches of the AS USSR); Akademiya nauk Estonskaya, Litovskaya i Ukrainskaya SSR (The Esthonia, Lithunia and Ukraine AS SSR); Nauchno-issledovatel'skiy institut geologii arktiki (Scientific Research Institute of Arctic Geology); Sverdlovskiy gornyy institut (The Sverdlovsk Mining Institute), etc. Academician I.P. Gerasimov opened the confer-

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Conference on the Problems of Recent Tectonic Movements of the Earth's Crust

ence. Reports were delivered by M.I. Sinyagina, V.A. Zenin, A.G. Yevdokimova, Yu.A. Mashcheryakov, S.K. Gorelov, L.Ye. Setunskaya, N.V. Dumitrashko, D.A. Liliyenberg, S.L. Kushev, L.G. Kamanin, S.S. Shul'ts, A.P. Rozhdestvenskiy, A.B. Basalikas, V.P. Trifonov, I.L. Sokolovskiy, G.A. Zhelnin, M.T. Kiryushina, A.T. Donabedova, V.V. Lamakin and Yu.V. Filippov.

AVAILABLE: Library of Congress

Card 2/2

1. Geology - USSR

AUTHOR: Setunskaya, L. Ye. SOV/10-59-1-21/32

TITLE: The Review of Soil Erosion Studies in the German Democratic Republic (Izucheniye pochvennoy erozii v Germanskoy demokraticheskoy respublike)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya geograficheskaya, 1959, Nr 1, pp 137-140 (USSR)

ABSTRACT: This is a review of two works by GDR authors: "The Spread of Erosion of Soils in the German Democratic Republic" by Rudolf Flegel, Leipzig, 1958, and "The Erosion of Soils in Thuringia", by J.H. Schultze, Gotha, 1952. There is 1 map.

ASSOCIATION: Institut geografii AN SSSR (Institute of Geography of the AS USSR)

Card 1/1

3(4) SOV/10-59-3-17/32

AUTHOR: Setunskaya, L.Ye.

TITLE: An Assay of Analysis of Longitudinal River Profiles to Study Tectonic Movements

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geograficheskaya, 1959, Nr 3, pp 110-115 (USSR)

ABSTRACT: The author studied longitudinal river profiles in the Ukraine in order to detect tectonic movements of the region. Lower parts as well as some sections of the middle flow of the Dnepr and Yuzhnyy-Bug rivers were studied. Especially analyzed was the longitudinal profile of the Mertvovod river. The following principle has been used: one first establishes the standard profile curve of the rivers of a given area (in this case, the mildly bent curve of the rivers of the Russian Plain) and all those stretches which do not coincide with the general curve are taken as being anomalous, consequently as signs of local tectonic movements. Naturally, all other factors must be considered and eliminated (geological substructure, etc.). The above mentioned area has

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An Assay of Analysis of Longitudinal River Profiles to Study Tectonic Movements

therefore been selected because successive surveys had detected that that area (the so-called "Krivorozhskoye podnyatiye" - Krivoy Rog upheaval) is "growing" by about 10 mm per year. The author used 500 different points of measurement. The result of the study is that the zone of the so-called anomalous river dips corresponds roughly to the "growing" area of Krivoy Rog. The formula of P.V. Ivanov has been used for calculating the theoretical line of the longitudinal profile of any river. The formula, however, is taken with reserve because there are other proposed formulas giving other results. The author mentions the following Soviet scientists: I.P. Gerasimov, M.S. Kozhurina, Yu.A. Meshcheryakov, L.G. Kamanin and A.V. Zhivago. There are 2 charts, 1 graph, 1 table and 6 Soviet references.

ASSOCIATION: Institut geografii AN SSSR (Institute of Geography, AS USSR).

3(4) SOV/10-59-3-31/32

AUTHORS: Setunskaya, L.Ye.

TITLE: The Second Interdepartmental Meeting on the Problem "Contemporary Tectonic Movements on the Territory of the USSR"

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geograficheskaya, 1959, Nr 3, pp 154-158 (USSR)

ABSTRACT: The meeting referred to in the title was convened in February 1959, in the Institut geografii AN SSSR (Institute of Geography Attached to the Soviet Academy of Sciences). The meeting heard the reports related to the respective Soviet activity during last year. About 70 persons attending the session were representatives of: the Institut geografii AN SSSR (IGAN) (Institute of Geography, AS USSR), the Institut geologii AN SSSR 'GIN AN SSSR) (Institute of Geology, AS USSR), the Komplekcsnaya yuzhnaya geologicheskaya ekspeditsiya AN SSSR (KYuGE AN SSSR) (Joint Southern Geological Expedition of the AS USSR), the Sibirskoye otdeleniye AN SSSR (Siberian Section of the AS USSR), the Bashkirskiy filial AN SSSR (Bashkir Branch of the AS USSR), the Akademiya

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nauk Ukrainskoy SSR (Academy of Sciences of the Ukrainskaya SSR), the Akademiya nauk Turkmenskoy SSR (Academy of Sciences of the Turkmenskaya SSR), the Akademiya nauk Estonskoy SSR (Academy of Sciences of the Estonskaya SSR), the Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii (Moscow Institute of Engineers of Geodetics, Aerialphotography and Cartography), the Tsentral'nyy nauchno-issledovatel'skiy institut geodezii, aeros"yemki i kartografii GUGK MVD SSSR (TsNIIGAiK) (Central Scientific Research Institute of Geodesy, Aerophotography and Cartography Attached to the GUGK MVD USSR), the Nauchno-issledovatel'skiy institut geologii Arktiki Ministerstva geologii i okhrany nedr SSSR (NIIGA) (Scientific Research Institute of the Arctic Geology at the Ministry of Geology and the Conservation of Mineral Resources, USSR), the Kiyevskiy universitet (Kiyev University), the Permskiy universitet (Perm University), the Sredneaziatskiy universitet (Central-Asia University), the Moskovskiy geologo-razvedochnyy institut (MGRI)

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(Moscow Geological Prospecting Institute), the Moskovskiy gosudarstvennyy pedagogicheskiy institut (Moscow State Pedagogical Institute), the Odesskiy gidrometeorologicheskiy institut (Odessa Hydrometeorological Institute), the Sverdlovskiy politekhnicheskiy institut (Sverdlovsk Polytechnical Institute), the Novocherkasskiy politekhnicheskiy institut (Novocherkassk Polytechnical Institute), the Vsesoyuznyy gidrogeologicheskiy trest (All-Union Hydrogeological Trust), and others. More than 20 lectures and reports were heard. Academician I.P. Gerasimov opened the session with a programmatic speech. He especially stressed the last Soviet achievement in this field, namely the publication, in 1958, of a monograph on studies concerning the "Sovremennyye vertikal'nyye dvizheniya zemnoy kory" (Contemporary Vertical Movements of the Earth's Crust). The book was published as the 123-rd issue of the Trudy TsNIIGAiK (Transactions of the TsNIIGAiK). The westerr part of the European Soviet territory was covered by the studies. N.I. Nikolayev (MGRI)

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reported on his own and S.S. Shul'ts' work aiming at drafting a map showing contemporary Soviet tectonics, as well as on the content of their respective publication entitled "Sovremennyye tektonicheskiye dvizheniya SSSR" (Contemporary Tectonic Movements in the USSR). M.I. Sinyagina gave an account of the work done by MIIGAiK during the last year. G.A. Zhelnin (AN Estonskaya SSR) presented his new map registering the speed of the contemporary tectonic movements in Estonia and Latvia. A.K. Pevnev (MIIGAiK) reported on the results of the repetitive leveling carried out in summer 1958, by the Institute of Geography attached to the AS USSR in cooperation with MIIGAiK near the Caspian Sea, in the area of the Baskunchak saline cupola. A.P. Bachmanov (Odessa Hydrometeorological Institute) read a report on the geodetic work done lately in the area of Odessa. S.K. Gorelov and L.Ye. Setunskaya (IGAN) explained the methods and results of their geological-geomorphological work done in the Privolzhskaya vozvyshennost' (Volga Region Hills) and in the

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North Caucasus. The lectures of A.P. Rozhdestvenskiy and Yu.Ye. Zhurenko (Bashkir Branch of the AS USSR) were dedicated to new-tectonic studies in the Pre-Ural area, those of N. V. Dumitrashko, S.L. Kushev and D.A. Liliyenberg (IGAN) to the recent and contemporary tectonic movements in the Caucasus. A.G. Doskach, V.A. Fil'kin and Ye.A. Fin'ko (IGAN) reported on their new-tectonic researches in Western Siberia and Kazakhstan. The Baykal area and the Proval Bay in the Baykal Lake were studied by V.V. Lamakin (GIN) and N.P. Ladokhin (from the Geologicheskiy institut Sibirskogo Otdeleniya AN SSSR - the Institute of Geology Attached to the Siberian Branch of the AS USSR), respectively. The Proval Bay sank 50 to 60 cm during last 60 years. Ye.P. Pokrass reported on her studies of the Central Foothills of the Caucasus and Western Siberia and the use of the combined method in her geomorphological-geological research. A.T. Donabedov gave an account of the research done by the Geofizicheskaya laboratoriya KYuGE (the Geophysical Laboratory

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of KYuGE) in order to uncover the indirect dependence existing between the speeds of the contemporary vertical tectonic movements and the geophysical fields thru structural elements of the Earth's crust. His research area was the South-East section of the Russian Plain and adjacent regions. G.A. Kon'kov (Novocherkassk Polytechnical Institute) lectured "On the Possible Liaison Between the Sudden Coal and Gas Ejections and Contemporary Tectonic Movements and Tensions". He particularly studied the coal mines of the Donbass. N.I. Nikolayev reported "On the Nature of Contemporary Tectonic Movements and the Method of their Study in the Field of Human Engineering Activity". Yu.A. Meshcheryakov (IGAN) lectured on new-tectonic studies abroad and presented a World map representing a general summary of the studies of contemporary tectonic movements of the Earth crust. About 20 persons took part in the discussions, e.g. S.S. Korzhuyev, A.I. Durnev, A.A. Izotov (MIIGAiK), A.V. Zhivago (IGAN), Yu.A. Skvortsov (Central-Asiatic University). The assembly

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approved the complex research method now in use, consisting of geodetic, oceanologic, geologic and geomorphologic elements, but said that new methods should be sought or the the old ones better developed (the morphometric, geophysic and other methods). The following problems are said to deserve particular attention: studying Eustatic fluctuation of the level of the world ocean; revealing the connection of geophysical fields with the speeds of the contemporary tectonic movements; studying the horizontal displacements of the Earth's crust; and many others. The GUGK MVD USSR is requested to arrange the development of the plans concerning systematic repetitive leveling operations on Soviet territory as well as the organization of a new network of level routes, gravimetric profiles and of the network of foot rules. Soviet tectonic studies will be focused upon compiling the monography entitled "Sovremennyye tektonicheskiye dvizheniya SSSR" (Contemporary Tectonic Movements in the USSR). A collection of articles will be

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prepared for the International Symposium on the Problem of Contemporary Movements of Earth's Crust, to be held on the occasion of the 12th General Assembly of the MGGS in Helsinki. The next Interdepartmental meeting on this problem will be convened at the beginning of 1961.

Card 8/8

LIDOV, V.P.; SEMUSKAYA, L.Ye.

Results obtained from investigating erosion processes by applying the quantitative carthographic method on the basis of investigations in the Volga Upland. Trudy Inst.lesa 44:5-34 '59. (MIRA 12:9)

(Erosion)

S/035/62/000/006/051/064
A001/A101

AUTHOR: Setunskaya, L. Ye.

TITLE: Peculiarities of recent tectonic movements of the Russian platform and Ural (along the Liyepaya-Sverdlovsk profile)

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 6, 1962, 27, abstract 6G173 (Collection "Sovrem. tekton. dvizheniya zemn. kory i metody ikh izuch.", Moscow, AN SSSR, 1961, 71 - 84, English summary)

TEXT: The character of recent tectonic movements along the profile passing through the following points: Liyepaya-Riga-Velikiye-Luki-Bologoye-Vologda-Kirov-Perm'-Sverdlovsk is analyzed. The total length of the profile amounts to 2,935 km. Data of precise repeated leveling were used for compiling the profile; the time interval between the first and second leveling amounts to 13 - 18 years for the lines between Liyepaya and Bologoye and to 18 - 29 years for the Vologda-Sverdlovsk line. The graph of rate of recent movements of the Earth's crust, determined along the profile by the repeated leveling method, is compared with geologic-geomorphological data and the curve of the latest movements reflecting summary amplitudes of Earth's crust deformations during the Neogen-Quaternary period. To

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Peculiarities of...

S/035/62/000/006/051/064
A001/A101

reveal a connection between the present movements with the latest movements of the Earth's crust which proceeded during the latter phases of the Quaternary period (especially in Holocene), data of repeated leveling are compared with materials on the structure and morphology of river valleys adjacent to the profile under investigation. On the basis of the analysis conducted, a conclusion has been drawn on the existence of some correlation between the present movements and both the abyssal structure of the Russian platform and the latest and late movements of the Earth's crust. Correlation coefficients are calculated for the quantitative estimation of the correlation indicated. There are 13 references.

V. Sinyagina

[Abstracter's note: Complete translation]

Card 2/2

RODZEVICH, N.N.; SETUNSKAYA, L.Ye.

Evaluating the intensity of ravine growth on the basis of morphological features. Izv.AN SSSR.Ser.geog. no.3:91-95 My-Je '61. (MIRA 14:5)

1. Moskovskiy gosudarstvennyy pedagogicheskoy institut imeni V.I. Lenina i Institut geografii AN SSSR.
(Volga Upland--Valleys) (Erosion)

SETUNSKAYA, L.Ye.; FIN'KO, Ye.A.

The Third Interdepartmental Conference on the Study of the Recent Tectonic Movements of the Earth's Crust. Izv. AN SSSR. Ser. geog. no.2:145-148 Mr-Ap '62. (MIRA 15:3)
(Geology, Structural—Congresses)

SETUNSKAYA, L.Ye.; FIN'KO, Ye.A.

Third Interdepartmental Conference on the Recent Tectonic Movements of the Earth's Crust. Sov.geol. 5 no.4:141-143 Ap '62. (MIRA 15:4)

1. Institut geografii AN SSSR.
(Earth--Surface)

SETUNSKAYA, L.Ye.; FIN'KO, Ye.A.

Third Interdepartmental Conference on Recent Crustal Tectonic Movements. Geofiz.biul. no.12:103-108 '62. (MIRA 16:5)
(Earth--Surface) (Geology, Structural)

SETUNSKAYA, L.Ye.

Study of the present-day movements of earth crust. Priroda 51 no.3:27-23 Mr '62. (MIRA 15:3)

1. Institut geografii AN SSSR, Moskva.
(Earth movements)

SETUNSKAYA, L.Ye.

Practice of the quantitative estimation of factors affecting the activity of ravines. Vop. geog. no.63:133-137 '63. (MIRA 17:3)

SETUNSKAYA, L.Ye.

First edition of the national atlas of Austria. Geod. i kart. no.8: 72-76 Ag '64. (MIRA 17:11)

SETUNSKAYA, L.Ye.

Fourth Interdepartmental Conference on Recent Crustal Movements. Izv. AN SSSR Ser. geog. no.1:139-141 Ja-F '65. (MIRA 18:2)

L 43889-66 EWT(1) GW
ACC NR: AT6011143 SOURCE CODE: UR/3197/65/000/002/0115/0123

AUTHOR: Setunskaya, L. Ye.; Chuklenkova, I. N. 15 EA1

ORG: Institute of Geography, AN SSSR (Institut geografii AN SSSR)

TITLE: Most recent and contemporary tectonic movements of the Vyatskaya zone of uplift

SOURCE: AN EstSSR. Institut fiziki i astronomii. Sovremennyye dvizheniya zemnoy kory. Recent crustal movements, no. 2, 1965, 115-123

TOPIC TAGS: epeirogeny, crustal movement, repeated leveling, geomorphology, tectonic movement, tectonics/Vyatskaya zone

ABSTRACT: Geomorphological research was carried out in the Vyatskaya zone of uplift and adjacent areas to study the most recent and contemporary tectonic movements (mostly during the Upper Pleistocene and Holocene). The structure and morphology of the river valleys were used as the basic criteria in the analysis. Results of the analysis showed that there is a close relationship between the river erosion in the area and the geological structure. Where the Vyatka River crosses the Vyatskaya uplift, the valley shows evidence of more intense erosion than do the adjacent areas located in negative geological structures. Over extensive areas along the valley sides, the river

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ACC NR: AT6011143

terraces have been uplifted above the level of the river. The uplift which is evidenced here apparently took place during the Upper Pleistocene and Holocene and is still going on at the rate of 2 mm/year, as indicated by repeated leveling data and cartographic analyses of the longitudinal profiles of the river. Orig. art. has: 3 figures. [SI]

SUB CODE: 08/ SUBM DATE: none

Card 2/2 mjs

POKSHISHEVSKIY, V.V.; SETUNSKAYA, L.Ye.; GAUDUKOVA, L.A.; LIVEROVSKIY, Yu.A.; NIKOL'SKAYA, V.V.

Reviews. Izv. AN SSSR. Ser. geog. no.3:126-135 My-Je '65. (MIRA 18:6)

SETUNSKAYA, L.Ye., kand. geograf. nauk

Recent movements of the earth's crust. Priroda 54 no.3: 112-113 Mr '65. (MIRA 18:4)

1. Institut geografii AN SSSR, Moskva.

BLAGOVOLIN, N.S.; SETUNSKAYA, L. Ye.

Second International Symposium on Recent Movements of the Earth's Crust. Izv. AN SSSR. Ser. geog. no. 1:122-124 Ja-F '66 (MIRA 19:2)

SETUNSKIY, N.

Australian miners are struggling. Sov.shakht. 11 no.4:39 Ap '62. (MIRA 15:3)
(Australia--Coal miners)

SETUNSKY, H.

"Accepting and rewarding of inventions and suggested improvements in agricultural machinery."

p. 172 (Zemedelske Stroje) Vol. 2, no. 7, July 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

KHODZHAYEV, A.M., otv. red.; GOLUBNICHIY, I.S., red.; PODGALO, A.S., red.; SETYUKOV, I.M., red.; SEMENKOV, V.N., red.; ROTOVA, R.S., red.; STOLYARCVA, M.T., tekhn. red.

[Course of lectures on economics] Kurs lektsii po politicheskoi ekonomii. Moskva, Gos. izd-vo "Vysshaia shkola." Book 1. 1962. 626 p. (MIRA 15:3)
(Economics--Study and teaching)

9(4) SOV/162-58-3-19/26

AUTHORS: Setyukov, L.I., and Rukavishnikov, N.N.

TITLE: A Transistorized Class D Power Amplifier (Usilitel' moshchnosti klassa D na poluprovodnikovykh triodakh)

PERIODICAL: Nauchnyye doklady vysshey shkoly, Radiotekhnika i elektronika, 1958, Nr 3, pp 145-150 (USSR)

ABSTRACT: The authors describe the principle of functioning and the basic units of a transistorized class D amplifier: oscillator-modulator, output amplifier stage, demodulator and load. The P6A transistor is considered, having the function of a switch. The authors present the circuit diagram of an experimental transistorized class D amplifier with 3 P6A and 1 P1Zh transistors and 2 DGTs-8 diodes. Figure 5 shows this circuit diagram. The output of this amplifier is 2 watts, the sensitivity is 100 millivolts and the resistance is 10 kiloohms. The frequency characteristic reaches its peak at 5 kc and then drops sharply. The quality of the amplifier is determined chiefly by the function of the oscillator-modulator unit. The blocking oscil-

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9.2520

S/194/62/000/006/207/232
D271/D308

AUTHOR: Setyukov, L.I.

TITLE: Transients in D-class transistor amplifiers

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, abstract 6-7-209 t (V sb. Poluprovodnik. pribory i ikh primeneniye, no. 7, M., Sov. radio, 1961, 289-295)

TEXT: The transfer coefficient of a transistor amplifier operating with a complex load is considered, and its output voltage is analyzed for when unit function voltage is applied to the input. Steady state condition is evaluated by means of a pulsation coefficient defined as the ratio of the maximum voltage on the load and minimum voltage in the steady state. 5 references. [Abstracter's note: Complete translation.]

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S/194/62/000/002/074/096
D271/D301

9,3275

AUTHOR: Setyukov, L. I.

TITLE: Application of double Fourier series for determining frequency spectra of diverse types of pulse modulation

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 2, 1962, abstract 2-7-24y (Tr. Mosk. energ. in-ta, 1961, no. 34, 24-35)

TEXT: When frequency spectra of various types of pulse modulation are analyzed by means of the usual Fourier series, a number of mathematical difficulties are encountered which prevent solution of the spectrum problem in its most generalized form. Several methods for calculating frequency spectra were developed for the partial solutions of the problem. These methods are, however, complex and they do not possess the necessary generality and flexibility. As a rule they are only valid for one type of modulation and they do not permit consideration of an arbitrary shape of pulses, their front edges, delay times, decay, etc. These deficiencies can be eliminated

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and the spectrum calculation simplified if double Fourier series are applied in the analysis. The application of double Fourier series in the analysis of frequency spectra of a modulated pulse train is described, and the derivation is shown of some spectra using as an example a type of pulse-width modulation of the 1st and 2nd kind. When the method is used, the derivation of spectra of a modulated pulse train is reduced to the expansion into a double Fourier series of the surface of the elementary volume (x,y), taking into account the relation between coordinates x and y which, in the general case, is determined by the type of modulation. If the shape of the elementary volume is complex, the coefficients of the Fourier series can be found by the methods of numerical integration. The method for calculating spectra by double Fourier series is sufficiently simple and evident. It is also valid for all types of pulse modulation (phase, width, amplitude, frequency) and for some combinations of these types it makes it possible to assume an arbitrary pulse form. It can, therefore, find wide application in pulse radio techniques, in automatics, telemechanics, etc. 6 figures, 4 references. [Abstracter's note: Complete translation.]

S/194/62/000/002/075/096
D271/D301

9.3275

AUTHOR: Setyukov, I. I.

TITLE: Frequency spectra of the two-stage pulse width modulation

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 2, 1962, abstract 2-7-25m (Tr. Mosk. energ. in-ta, 1961, no. 34, 36-44)

TEXT: Using double Fourier series, frequency spectra are derived of two-stage single-sided pulse width modulation of the 1st and 2nd kind. The method is shown for the change from the spectrum of single-sided modulation to the spectrum of double-sided modulation. The following conclusions are drawn on the basis of the derived formulas. 1) The frequency spectrum of the pulse modulation has a complex structure and is composed, besides carrier and modulation, of combination frequencies. 2) The spectrum of the 2nd kind modulation contains odd harmonics of the modulating frequency. 3) As distinct from the two-stage single-sided modulation, the spectra of

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Frequency spectra of ...

the two-stage double-sided modulation have simpler structure. 4) The simplest spectrum is that of the two-stage double-sided modulation of the 1st kind. This type of modulation can, therefore, be recommended for the class D amplifiers. 5) The formulas which have been derived permit one to estimate spectrum variations as modulation parameters are varied. 2 figures. 3 references. [Abstracter's note: Complete translation.]

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32924

S/194/61/000/011/059/070
D271/D302

9,3270

AUTHOR: Setyukov, L.I.

TITLE: Signal distortion by transistor transients in a class D transistor amplifier

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 11, 1961, 14, abstract 11 K104 (Tr. Mosk. energ. in-ta, 1961, no. 34, 45-48)

TEXT: Non-linear distortions of the amplified signal, caused by transistor transients, are evaluated by analyzing frequency spectra of the sequence of modulated pulses. The expression which is obtained shows that in consequence of transients: 1) The amplitude of the transformed modulating signal has not changed; 2) the value of the constant component of the signal has increased in proportion with the saturation of the transistor and the magnitude of the back edge; a certain decrease of the constant component is observed proportional to the build-up time of the front edge, and

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Signal distortion...

this must be taken into account when d.c. amplifiers and voltage converters are designed; 3) the spectrum of second-order and higher components has also changed; influences of the front and back edges are not identical and this has a definite physical significance. 3 references. [Abstracter's note: Complete translation]

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ANDRUSHKO, A.F., prepodavatel'; VORONKOV, E.N., prepodavatel', KUBETSKIY, G.A., prepodavatel', MALYSHEV, G.A., prepodavatel'; SETYUKOV, L.I., prepodavatel'; SOKOLOV, A.A., prepodavatel'; KHIRIN, A.A., prepodavatel'; SHALIMOVA, K.V., prof.; ENYUTIN, V.V., red., LARIONOV, G.Ye., tekhn. red.

[Specialized guide to semiconductors and semiconductor devices] Spetsial'nyi praktikum po poluprovodnikam i poluprovodnikovym priboram. Moskva, Gos. energ. izd-vo, 1962. 303 p. (MIRA 15:2)

(Semiconductors) (Transistors)

S/108/62/017/007/002/008
D288/D308

9.4310

AUTHORS: Setyukov, L. I., Solov'yev, A. K., Members of the Society (see Association)

TITLE: Transient and steady-state processes in a class D transistor amplifier

PERIODICAL: Radiotekhnika, v. 17, no. 7, 1962, 19-25

TEXT: The operational characteristics of a switching transistor with a reactive collector load are not defined by the intersection of a straight load line with the $I_c \ldots U_c$ family of curves, as in the case of a resistive load, but by a load loop of which the position depends on the relative frequency and amplitude of switching pulses with respect to the time constants of the reactive load--R and C in parallel. Charge- and discharge time constants are expressed in terms of R, C, and differential cutput conductivities. Of main interest is the case of a pulse

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S/108/62/017/007/002/008
D288/D308

Transient and steady-state...

repetition frequency high enough to prevent discharge, resulting in a loop shift towards the origin. An analysis with the aid of Laplace transforms yields a formula for U_{out} in terms of R, I_c, pulse repetition frequency, occupancy, and normalized (dimensionless) time n; one part only of the expression is a function of n and describes the transient process; the second part is independent of n and corresponds to the steady state. Close agreement is obtained between calculated and experimental responses. A similar analysis is performed for the R and L series circuit, relevant time constants being expressed in terms of R, L, and transistor saturation resistance. It is advisable to protect the transistor with a catching diode across the load. Formulas for $I_{c\ max}$ and $I_{c\ min}$ are derived and employed to construct a theoretical response curve, again agreeing closely with experiment. There are 9 figures.

VB

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Transient and steady-state... S/108/62/017/007/002/008
D288/D308

ASSOCIATION: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi im. A. S. Popova (Scientific and Technical Society of Radio Engineering and Electrical Communications im. A. S. Popov) [Abstracter's note: Name of Association taken from first page of journal.]

SUBMITTED: June 16, 1961

VB

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ACCESSION NR: AP4029461 S/0108/64/019/004/0052/0056

AUTHOR: Setyukov, L. I. (Active member); Solov'yev, A. K. (Active member)

TITLE: Frequency characteristics of a class D transistorized amplifier

SOURCE: Radiotekhnika, v. 19, no. 4, 1964, 52-56

TOPIC TAGS: amplifier, transistorized amplifier, class D transistorized amplifier, frequency characteristic, pulse duration modulation

ABSTRACT: A class D amplifier which consists of a modulator and an amplifier stage is theoretically considered. The modulator converts the signal into a sequence of pulses whose height and repetition frequency are constant but whose duration is proportional to the signal value (pulse-duration modulation). The pulses so obtained are amplified by the switch-mode amplifying stage. Formulas are developed for the frequency characteristics of a single-cycle

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L 47040-66 EWT(m)/EWP(t)/ETI IJP(c) JD/JH
ACC NR: AT6024922 (A, N) SOURCE CODE: UR/2981/66/000/004/0135/0142

AUTHOR: Fridlyander, I. N.; Setyukov, O. A.; Titarenko, I. I.; Barasheva, T. V.; Lashko, N. F.; Khromova, O. A.

ORG: none

TITLE: Study of the chemical inhomogeneity in weld joints of ATsM and ATsMU alloys

SOURCE: Alyuminiyevyye splavy, no. 4, 1966. Zharoprochnyye i vysokoprochnyye splavy (Heat resistant and high-strength alloys), 135-142

TOPIC TAGS: zinc containing alloy, magnesium containing alloy, weld evaluation, aluminum alloy/ ATsM aluminum alloy, ATsMU aluminum alloy

ABSTRACT: The inhomogeneity of chemical composition in weld joints of ATsM and ATsMU alloys (with AMg4 and AMg6 filler wire) was studied by local methods of chemical, spectral, and x-ray spectral analyses. It is shown that the average chemical composition of the weld joint depends on the composition of the base material and filler wire, thickness of the welded sheets, and supply rate of filler wire, and is independent of the single-phase or three-phase welding schedule. An increase in the wire supply rate and decrease of the thickness of the sheets causes a rise in the magnesium content and drop in the zinc content of the seam. Metallographic analyses of the fusion zone showed that its structure consists of grains of base material fused at the boundaries; these grains gradually change into the cast grains of the seam. In

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ACC NR: AT6024922

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the fused grains of the fusion zone and cast grains of the seam, liquation of zinc from the grain to the periphery is observed; the boundary regions are rich, the central ones poor in zinc. X-ray structural analysis showed the existence of the Al_6Mn phase in ATsM and ATsMU alloys if the manganese concentration did not exceed 0.26%. In ATsM and to a much lesser degree in ATsMU, which contains half as much Mn, coarse formations of the separated Al_6Mn phase are observed which promote the generation of microcracks and may increase the tendency toward a slow breakdown. Orig. art. has: 3 figures and 3 tables.

SUB CODE: 11/ SUBM DATE: none

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welding of dissimilar metals

Card 2/2 vmb

SEULESCU, C., ing.

"Industrial tests of the electric machines" by G.K. Jerve. Reviewed by C. Seulescu. Electrotehnica 10 no.8:317-318 Ag '62.

SEULIN, N.A.

AUTHOR: See below 94-13-7-10/25

TITLE: On Improving the Design of Electricity Supply to Industrial Undertakings (K voprosu uluchsheniya proyektirovaniya elektrosnabzheniya promyshlennykh predpriyatiy)

PERIODICAL: Promyshlennaya Energetika, 1958, Vol 13, Nr 7, pp 18-29 (USSR)

ABSTRACT: Editorial Note, p 18
An article by M. V. Greysukh of the above title was published in Promyshlennaya Energetika, 1958 Nr 2. This number contains several contributions to discussion on the above article mainly from members of the staffs of design organisations.
Yermilov, A. A., Engineer (Tyazhpromelektroproyekt)pp18-21
It is timely to discuss improvements in power supply for industry. The power of individual items of equipment is being greatly increased. The new structure of control of the national economy facilitates interconnection between the electricity supply systems of different organisations and also unified supply to various industries. New rules have been drawn up for

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On Improving the Design of Electricity Supply to Industrial Undertakings

Simpler equipment should be used for making connections to high voltage lines up to 220 kV. The main tendencies in designing industrial power supply systems are summarised.

Seulin, N. A. and Chizhishin, P. L., Engineers (Gornometallurgicheskiy Kombinat), pp 21-22

The progressive tendency to take high voltage supplies closer up to industrial loads is still being resisted by some designers. For example, electric furnaces of 30 MVA were installed 120 metres from the furnace transformers. Considerable savings were made by rejecting proposals to construct special housing for furnace switchgear. Furnaces are sometimes put in the wrong category with the result that provision of reserve supply arrangements is extravagant. It is practical and economic to use small oil volume circuit breakers for furnaces although this is in some cases forbidden by the rules. Standard 110 kV transformers of lower output than at present should be made available.

SEULIN, N.A.

Concerning the size of the grounding strands of flexible power cables. Prom. energ. 18 no.6:58 Je '63. (MIRA 16:7)

(Electric cables)

SEULIN, N.N.

Concerning the cross section of the grounding strand of flexible cable lines on mobile devices. Prom.energ. 16 no.11:32 N '61.
(MIRA 14:10)

(Electric wiring) (Electric currents--Grounding)